

## CURRICULUM VITAE

Scott K. Kennedy

809 Ryan Road  
Florence, MA 01062

Home: (413) 582-6877  
E-mail: scott.k.kennedy@gmail.com

### TELECOMMUNICATIONS RELATED WORK EXPERIENCE

#### SELECTED INTERNATIONAL CONSULTING ACTIVITIES

- \* Development of a cost model for the purpose of assisting in the establishment of interconnection rates and universal service support. Prepared for The Instituto Nacional de Comunicacoes de Mocambique (INCM) and presented to the INCM, Vodacom, TDM and other interested parties. Booz-Allen & Hamilton, Project Leader. October 2003 to May 2005.
- \* Presentation In Support of Proposed Interconnection Rates. Prepared for The Instituto Nacional de Comunicacoes de Mocambique (INCM) and presented to the Minister of Transportation and Communication for the Government of Mozambique. Booz-Allen & Hamilton, Project Leader. September 2002.
- \* Research, analysis and preparation of report proposing interim interconnection rates. Prepared for The Instituto Nacional de Comunicacoes de Mocambique (INCM) in support of INCM's role as regulatory authority and arbitrator in interconnection disputes. Booz-Allen & Hamilton, Project Leader. 2002
- \* Consultant to the Commerce Commission, Government of New Zealand. Provided economic assistance and conducted an analysis of cost data provided by Telecom New Zealand Limited (Telecom) in the course of the Commission's investigation into Telecom's alleged anti-competitive behavior in its pricing for access to data tails on its Frame Relay network. 2001
- \* Research and analysis performed to examine the impact of various possible future tariff regimes on Telecom Asia, Ltd. of Thailand. Analysis was part of project examining the impact of the Government of Thailand's commitment to several market opening and liberalization initiatives by 2006. Booz-Allen & Hamilton, Project Leader. 2000
- \* Research, analysis and preparation of rate model to support tariff rates proposed to the Privatization Unit of the Ministry of Finance, Government of Lesotho. Analysis was part of the *Lesotho Privatization Project-Finalization of Legal and Regulatory Framework in Telecoms Sector* project: Booz-Allen & Hamilton, Project Leader. 1999-2000
- \* Developing a cost model for British Telecom which modeled costs for all modes of telecommunications services. The model was designed so as to enable British Telecom to analyze the

cost levels and structures of their competitors. 1999-2000.

### Independent Projects

- Advisor to the *Nevada Legislature Legislative Commission's Subcommittee To Study Telecommunication Services In Nevada*, 2004.
  - Prepared, as advisor to the Subcommittee, a study of, and report on, the state of telecommunications service provision in the state of Nevada. The report submitted utilized data from a variety of sources, including data submitted by telecommunications service providers operating in Nevada, to develop a profile depicting telecommunications service availability in the state by categories such as:
    - Urban Vs. Rural areas of the state;
    - Median income levels in wire center serving areas; and,
    - Levels and locations of competitive market entry.
- Advisor to *The Utility Reform Network (TURN)*, in a California cost proceeding concerning the pricing of unbundled network elements for the provision of telecommunications services.<sup>1</sup>
  - Prepared testimony concerning costs of switching elements in the public switched network. Analysis supporting this testimony required the following activities, among others;
    - Performing sensitivity analysis utilizing submitted cost models and varying specific switching cost drivers;
    - Performing audit analysis of switching cost models submitted for consideration and adoption by the Public Utility Commission; and,
    - Developing alternative proposed inputs for switching investments, switching discounts, and IDLC/UDLC mix.

**Senior Telecommunications Specialist**, Gabel Communications, 1994 - Present. As research associate at Gabel Communications my principle tasks have been:

- Developing databases used in analyzing the extent of broadband rollout and examining the various socio-economic indicators and drivers which may have fostered or impeded that rollout;

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<sup>1</sup> *Before the Public Utilities Commission of the State of California, Rulemaking in the Commission's Own Motion to Govern Open Access to Open Bottleneck Services and Establish a Framework for Network Architecture Development of Dominant Carrier Networks*, Rulemaking 93-04-003;, and *Investigation on the Commission's Own Motion into Open Access and Network Architecture Development of Dominant Carrier Networks*, Investigation 93-04-002, Filed April 7, 1993

- To create and analyze cost structure input and output spreadsheets for the HAI, BCPM, and HCPM cost proxy models as they have been utilized in various jurisdictions that Gabel Communications has become involved in;
- To provide analysis and critiques of runs performed by other parties using these models in cases that Gabel Communications has become involved in;
- Design Telco demand valuation models used in the evaluation of national Telco Privatization efforts;
- Provide expert testimony and assistance to public utility commission staff concerning network element pricing, cost model usage and analysis, and the competitiveness of segments of the state's telecommunications market (Nevada);
- Provide analysis and recommendations to public utility commissions concerning UNE costs, ILEC Section 271 entrance into the Inter-LATA market, and universal service fund issues, among others;
- Design engineering economic models of switching systems so as to better understand how those systems are impacted by varied traffic demand patterns and the impact this would have on costs;
- Assist in the preparation of testimony, and supporting analytical workpapers, for the various state regulatory cases in which Gabel Communications is participating in an advocacy role;
- Perform research and analysis supporting the various national and international telecommunications regulatory policy papers and projects Gabel Communications has undertaken.

#### **SELECTED PROCEEDINGS INVOLVED IN**

\* Before the Federal Communications Commission, *In the Matter Of: Cost Review Proceeding for Residential and Single-Line Business Subscriber Line Charge (SLC) Caps, Access Charge Reform, Price-cap Performance Review for Exchange Carrier Federal-State Joint Board on Universal Local Service*, CC Docket Nos. 96-262, 94-1, 96-45, 2002. Developed recommendations and analyses provided to the National Association of State Utility Consumer Advocates (NASUCA) on matters related to this proceeding. Prepared sections of testimony for this proceeding.

\* Before The Commonwealth Of Massachusetts Department Of Telecommunications And Energy, *In The Matter Of: Phase II Of The Department Of Telecommunications And Energy Order On Alternative Regulation*, D.T.E. 01-31, 2002. Developed recommendations and analyses provided to the Office of Attorney General on matters related to this proceeding. Assisted in the preparation of testimony for this proceeding.

\* Before the State of Maine Public Utilities Commission, *In the Matter Of Investigation of Total element*

*Long-Run Incremental Costs (TELRIC) Studies and Pricing of Unbundled Network Elements*, Docket No. 97-505, 2002. Developed recommendations and analyses provided to the Commission on matters related to this proceeding.

\* Before the State of Maine Public Utilities Commission, *In the Matter Of: Inquiry Regarding the Entry of Verizon-Maine into the InterLATA Telephone Market Pursuant to Section 271 of the Telecommunications Act of 1996*, Docket No. 2000-849, 2002. Developed recommendations and analyses provided to the Commission on matters related to this proceeding.

\* Before The New Mexico State Corporation Commission, *In The Matter Of: In The Matter Of Qwest Corporation's Section 271 Application And Motion For Alternative Procedure To Manage The Section 271 Process*, Utility Case No. 3269, 2001-2002. Developed recommendations and analyses provided to the Commission on matters related to this proceeding.

\* State Of Connecticut Department Of Public Utility Control, *In the Matter Of: DPUC Investigation Of The Southern New England Telephone Company's Alternative Regulation Plan*, Docket No. 00-07-17, 2000-2001. Developed recommendations and analyses provided to the Office of Consumer Counsel on matters related to this proceeding. Prepared sections of testimony for this proceeding.

\* Before the Washington State Utilities and Transportation Commission, *In the Matter of the Continued Costing and Pricing of Unbundled Network Elements, Transport, and Termination*, Docket No. UT-003013, 2000-2001. Developed recommendations and analyses provided to the Commission on matters related to this proceeding.

\* State Of Connecticut Department Of Public Utility Control, *In the Matter Of: Application Of The Southern New England Telephone Company For Approval Of Cost Studies For Unbundled Network Elements*, Docket No. 00-01-02, 2000. Developed recommendations and analyses provided to the Office of Consumer Counsel on matters related to this proceeding. Prepared sections of testimony for this proceeding.

\* Before The New Mexico State Corporation Commission, *In The Matter Of: The Petition By e-spire Communications, Inc., And ACSI Local Switched Services, Inc. D/B/A/ e-spire Communications For Arbitration Of An Amendment To An Interconnection Agreement With U S West Communications, Inc., Pursuant To Section 252(B) Of The Telecommunications Act Of 1996*, Docket No. 98-382-TC, 1999-2000. Developed recommendations and analyses provided to the Commission on matters related to this proceeding.

\* Before the Washington State Utilities and Transportation Commission, *In the Matter of the Pricing Proceeding For Interconnection, Unbundled Elements, Transport and Termination, and Resale*, Docket Nos. UT-960369 (general), UT-960370 (U S WEST), and UT-960371(GTE), 1997-2000. Developed recommendations and analyses provided to the Commission on matters related to this proceeding.

\* Advisor to the Staff of the Nevada Public Utilities Commission in the Commission's Unbundled

Network Proceedings involving Nevada Bell and Sprint, 1998 to 1999.

## **OTHER CONSULTING ACTIVITIES**

\* Consultant to the Federal Communications Commission in the following proceedings: *In the Matter of Federal-State Joint Board on Universal Service and Forward-Looking Mechanism for High Cost Support for Non-Rural LECs*, CC Docket Nos. 96-45 and 97-160. Advised the Commission on appropriate switching and cable cost inputs to be utilized in the Commission's High Cost Proxy Model (HCPM), used in determining an eligible carrier's level of universal service support. These inputs, the Gabel/Kennedy inputs, were adopted by the FCC in its **Tenth Report and Order**, FCC 99-304, CC Docket Nos. 96-45 and 97-160 issued on November 2, 1999. 1998-1999

## **PUBLICATIONS**

Gabel, David and Scott K. Kennedy, "Proxy Models and the Funding of Universal Service," in Competition, Regulation, and Convergence: Current Trends in Telecommunications Policy Research. Lawrence Erlbaum Associates. 1999, pp. 213-233.

Gabel, David, Scott K. Kennedy, and Eric Ralph, "Universal Service", Encyclopedia of Telecommunications, vol. 17, eds. Fritz E. Froehlich and Allen Kent. New York: Marcel Dekker, Inc., 1999, pp. 181-198.

Harris, Jonathan M. and Scott Kennedy (1999) "Carrying Capacity in Agriculture: Global and Regional Issues", *Ecological Economics*, 29(3), 443-461.

Gabel, David and Scott K. Kennedy, Estimating the Cost of Switching and Cables Based on Publicly Available Data, National Regulatory Research Institute, NRRI 98-09, April 1998. Presented at the 26<sup>th</sup> Annual Telecommunications Policy Research Conference (TPRC), October 1998.

Gabel, David and Scott K. Kennedy, Proxy Models and the Funding of Universal Service, Paper Presented at the 26<sup>th</sup> Annual Telecommunications Policy Research Conference and Published in the Conference Proceedings, October 1998.

## **Publications For Which Research And Material Assistance Was Provided**

Gabel, David, "Regulation of Retail Telecommunications Rates," forthcoming in The Institutional Approach to Public Utility Regulation, eds. Edythe Miller and Warren Samuels, Michigan State University Press, 2002.

"Current Issues in the Pricing of Telecommunications Services," David Gabel, Report for the American Association of Retired Persons, 2001, [http://research.aarp.org/consume/d17416\\_pricing.html](http://research.aarp.org/consume/d17416_pricing.html)

"Who's Taking Whom: Some Comments and Evidence on the Constitutionality of TELRIC," (David

Gabel with David Rosenbaum), Federal Communications Law Journal, March 2000, pp. 239-271.

### **OTHER WORK EXPERIENCE**

**Researcher**, Global Development and Environment Institute (GDEI), Fletcher School of Law and Diplomacy, Tufts University, Medford, MA. May 1994 - 1996.

As researcher working with one of the senior economists of GDEI, I have assisted in the preparation of several papers on the environmental impact of world agricultural systems, the most recent of which was presented at the Society for Ecological Economics Conference in the Summer of 1996. This work has involved the econometric modeling of agricultural inputs vs. crop yields. Current projects include, assisting in the preparation for a microeconomics text to be published and used in the Russian Republic. I have also worked assisted GDEI in establishing an Internet presence in the form of a World Wide Web Homepage which displays information about GDEI projects and initiatives and which contains abstracts of GDEI publications.

**Research Assistant**, Institute for Development Research (IDR), Boston, MA. 1994 - 1995.

As research assistant my principle task has been to do background research, literature reviews, and conceptual writing for papers and conferences which IDR has committed to. Other tasks include: developing a catalog of existing course work and research programs on NGOs/non-profits in the Boston area; Developing a rationale and methodology for disseminating IDR's research electronically via the Internet and; devising a more effective e-mail/electronic communication system for IDR. IDR provides organizational and educational support to NGOs and grassroots movements in Asia, Africa and Latin America.

**Research Assistant**, Harvard Institute for International Development (HIID), Cambridge, MA. November of 1994 to 1995.

As research assistant to Dr. Anil Markandya I performed summary analysis and synthesis of several country case studies. This was done as background for a report Dr. Markandya was preparing for the UN Commission on Trade and Development (UNCTAD) on the environmental effects of open market trading regimes in developing countries and the effects of developed country environmental legislation on the export sector of developing countries. Subsequent to this project I worked with Dr. Markandya on a Forest Taxation project. I performed data gathering and analysis on the forest taxation and royalty policies of several countries for Dr. Markandya's policy recommendations to colleagues in the Former Soviet Union.

**Teaching Assistant**, Quantitative Research Methods: A First Course in Data Analysis, Tufts University, Spring 1995.

Taught lab sections and assisted students in an undergraduate level statistical analysis course designed for sociology majors.

**Teaching Assistant**, Quantitative Reasoning, Tufts University, Fall 1993.

Taught lab sections and assisted students in a graduate level statistical analysis course, a core requirement for the Graduate Program in Urban and Environmental Policy at Tufts.

**Talloires Scholar**, Lincoln Filene Center, Tufts University, Medford, MA. November 1992 - September 1993.

As Talloires Scholar, I participated in the Seventh Talloires Seminar on international environmental issues; "Strengthening Partnerships for Technological Cooperation". The Seminar involved 36 participants from 14 nations and a broad range of perspectives and sectors. I assisted in coordinating the logistical aspects of the Seminar. Worked on developing case studies of partnerships for presentation and analysis at the Seminar. Conducted research for, and was second author on, two papers prepared for the Seminar: "Talking Points on Strengthening Partnerships for Technological Cooperation: Finance and Business Initiatives", with Dr. Arpad von Lazar and "Building the Capacity of NGO Bridging Agents: A Key Strategy for Strengthening Partnerships", with Dr. Robert Hollister. Prepared the Quarterly Quality Assurance Reports on the Seminar's progress for submission to the Tufts' Center for Environmental Management and the EPA. Co-author of the Summary report and analysis of the Seminar proceedings.

**Financial Analyst**, Management Accounting Department, Amoskeag Bank Shares, Inc., Manchester, NH. March 1989 - July 1992.

Preparation and analysis of earnings schedules for holding company and affiliates for presentation to senior officers at monthly earnings review meetings. Perform variance and trend analysis on company's current performance versus budgeted, forecasted and prior month performance. Perform monthly and quarterly margin and spread analysis. Special Project of note was the co-development and implementation of a Strategic Business Unit structure that better enabled the organization to track income and costs by product and product area. Key player in quarterly forecasting process and annual budgeting process. Trainer for affiliated companies in new budgeting procedures and software. Extensive use of Lotus 1-2-3 and ACCESS PLUS report writer.

**Staff Analyst**, External Reporting Department, Amoskeag Bank Shares, Inc., Manchester, NH. January 1987-March 1989.

Prepared, and supervised others in preparation of: quarterly Call Reports, Y-9CÖs, and other regulatory reports for lead bank and holding company for submission to the FDIC, the Federal Reserve Bank and the SEC. Prepared schedules for annual and quarterly report to shareholders, including financial analysis and editorial assistance for the Management's Discussion and Analysis. Designed data preparation and presentation formats of affiliated companies for consolidated holding company reporting process.

**Analyst**, Special Projects Department, Amoskeag Bank/Amoskeag BankShares, Inc., Manchester, NH. August 1986-January 1987.

As part of a special projects task force put together by the parent holding company, I analyzed reconciliation problems of general ledger and subledger accounts of the lead bank and affiliated companies. Designed and installed efficient procedures and controls for solving existing reconciliation problems and preventing future ones. Trained reconciliation personnel in use of new procedures and methodology behind them.

**Economic Development Assistant**, Social Development Commission, Kingston, Jamaica. Assigned to Ebony Park Cooperative Society, LTD.

Assisted in planning production schedules, evaluating market needs, and marketing cooperative produce internationally and locally. Assisted in education programs aimed at developing stronger group process and decision making skills among cooperative directors and members. Prepared, with Economic Development Advisor, a \$JA 10 million loan application to the Agricultural Credit Bank of Jamaica. Prepared monthly production and financial reports for review by the Minister of Youth and Community Development and the Prime Minister. Performed monthly bookkeeping for cooperative accounts.

## **EDUCATION**

BS in Economics, University of Minnesota, Minneapolis, 1986.

MA in Urban and Environmental Policy, Tufts University, Medford, MA., 1994.